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MODELE MATHEMATIQUE DE LA
POLLUTION EN MER DU NORD.

TECHNICAL REPORT
1973/SED. 03

This paper not to be cited without prior reference to the author

SORPTIE-EIGENSCHAPPEN VAN SEDIMENTEN VAN DE
NOORDZEE.

door

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Capaciteit van de zeebodemmonsters t.o.v. Cd 1 N + Cd ¹⁰⁹

| Monster < 150 μ | Capaciteit meq/g | Monster < 150 μ | Capaciteit Meq/g |
|------------------------|---------------------|------------------------|---------------------|
| 1188 | 0,79 | 1252 | 0,59 |
| 1190 | 0,35 | 1326 | 0,63 |
| 1194 | 0,54 | 1416 | 0,61 |
| 1196 | 0,82 | 1421 | 0,54 |
| 1211 | 0,51 | 1428 | 0,20 |
| 1215 | 0,85 | 1437 | 0,23 |
| 1241 | 0,62 | 1519 | 0,022 |
| 1251 | 0,48 | 1563 | 0,052 |
| 1283 | 0,61 | 1582 | 0,33 |
| 1284 | 0,093 | 1598 | 0,082 |
| 1344 | 0,29 | 1616 | 0,40 |
| 1434 | 0,44 | 1635 | 0,48 |

Bepaling van de K_d in zeewatera) Cs^{137} -tracer

| bodemmonster | K_d |
|--------------|-------|
| <150 μ | ml/g |
| 1252 | 440 |
| 1326 | 380 |
| 1415 | 400 |
| 1416 | 370 |
| 1421 | 300 |
| 1428 | 120 |

b) Cd^{109} -tracer

| bodemmonster | K_d |
|--------------|-------|
| <150 μ | ml/g |
| 1252 | 73 |
| 1326 | 74 |
| 1415 | 56 |
| 1416 | 89 |
| 1421 | 35 |
| 1428 | 13 |
| 1521 | 20 |
| 1563 | 10 |
| 1582 | 35 |
| 1598 | 9,8 |
| 1616 | 77 |

Bepaling van de K_d in zeewater.

a) Cs^{137} -tracer

| Bodemmonster <150 μ | K_d ml/g | Bodemmonster <300 μ | K_d ml/g |
|----------------------------|---------------|----------------------------|---------------|
| 0054 | 39 | 1014 | 90 |
| 1026 | 330 | 1181 | 95 |
| 1303 | 51 | 1216 | 36 |
| | | 1253 | 33 |
| | | 1273 | 36 |
| | | 1287 | 40 |
| | | 1290 | 36 |
| | | 1479 | 7,5 |
| | | 1521 | 16 |

b) Co^{60} -tracer

| | | | |
|------|-----|------|-----|
| 0054 | 240 | 1014 | 280 |
| 1026 | 560 | | |
| 1252 | 590 | | |
| 1303 | 720 | | |
| 1326 | 370 | | |
| 1342 | 170 | | |

c) Cd^{109} -tracer

| | | | |
|------|-----|------|-----|
| 0054 | 4,1 | 1014 | 16 |
| 1026 | 33 | 1181 | 6,2 |
| 1303 | 8,6 | 1216 | 4,0 |
| | | 1253 | 7,0 |
| | | 1273 | 6,5 |
| | | 1287 | 7,5 |
| | | 1290 | 8,1 |
| | | 1479 | 5,1 |
| | | 1521 | 6,2 |

Bepaling van de K_d in zeewater.

| Bodemmonster < 150 μ | K_d ml/g | Bodemmonster < 300 μ | K_d ml/g |
|------------------------------|---------------|-----------------------------|---------------|
| a) Co^{60} -tracer | | | |
| 1380 | 820 | 1181 | 52 |
| 1415 | 330 | 1216 | 280 |
| 1416 | 410 | 1253 | 310 |
| 1420 | 270 | 1273 | 58 |
| 1421 | 220 | 1287 | 280 |
| 1428 | 22 | 1290 | 430 |
| | | 1304 | 150 |
| | | 1333 | 13 |
| | | 1361 | 63 |
| | | 1379 | 230 |
| | | 1398 | 580 |
| | | 1414 | 28 |
| | | 1479 | 15 |
| | | 1521 | 93 |
| b) Cd^{109} -tracer | | | |
| 1380 | 55 | 1304 | 10 |
| 1342 | 21 | 1333 | 2,9 |
| 1420 | 63 | 1361 | 5,0 |
| | | 1379 | 8,1 |
| | | 1398 | 9,3 |
| | | 1414 | 1,7 |

Bepaling van de K_d in zeeewater.

| Bodemmonster | K_d | Bodemmonster | K_d |
|---------------------------|-------|--------------|-------|
| $< 150 \mu$ | ml/g | $< 300 \mu$ | ml/g |
| Cs ¹³⁷ -tracer | | | |
| 1342 | 140 | 1304 | 44 |
| 1380 | 460 | 1333 | 7,2 |
| 1420 | 560 | 1361 | 49 |
| | | 1379 | 36 |
| | | 1398 | 43 |
| | | 1414 | 19 |